

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS MEDICAL</p> <p>8116</p> <p>Accredited to ISO 15189:2022</p>	<p>University College London Hospitals NHS Foundation Trust</p> <p>Issue No: 008 Issue date: 25 February 2026</p>	
	<p>National Hospital for Neurology & Neurosurgery Neuropathology, 1st floor UCL Institute of Neurology Queen Square London WC1N 3BG</p>	<p>Contact: Vaneesha Gibbons Tel: +44 (0)203 448 4250 Fax: +44 (0)207 419 0948 E-Mail: vaneeshagibbons@nhs.net Website: https://www.ucl.ac.uk/ion/divisions/neuropathology</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE AND FLUIDS</p> <p>Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens</p> <p>Formalin fixed tissues samples (as above)</p> <p>Processed tissue samples (as above) and from referral cases</p> <p>Paraffin waxed tissue samples (as above)</p>	<p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</u></p>	<p>Macroscopic and Microscopic examination</p> <p>In house documented procedures in conjunction with equipment as specified below:</p> <p><u>Specimen dissection</u></p> <p>Manual methods using SOP CU01</p> <p><u>Tissue Processing</u></p> <p>SOP EQ06C in conjunction with manufacturer's instructions using Sekura Tissue Tek VIP processor</p> <p><u>Decalcification</u></p> <p>DE06 in conjunction with manufacturer's instructions using Sakura TDE30 decalcifier system.</p> <p><u>Tissue embedding</u></p> <p>SOPs SU06 & SU09 in conjunction with manufacturer's instructions using embedding centres</p> <p><u>Tissue sectioning (microtomy)</u></p> <p>SOP SU08 using Leica microtomes</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Frozen Sections</p> <p>FFPE slides prepared in house</p> <p>Slides from tissue section, CSF, ocular fluid & body fluids</p>	<p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)</u></p> <p>Morphological assessment and interpretation / diagnosis</p> <p><u>Routine staining</u></p> <p>Identification of basophilic and eosinophilic structures</p>	<p>Macroscopic and Microscopic examination</p> <p>In house documented procedures in conjunction with equipment as specified below:</p> <p>SU03 in conjunction with manufacturer's instructions using Leica cryostat CM1950</p> <p>By microscopy with reference to:</p> <p>RE01: Reporting Generic SOP RE02: The reporting of post mortems RE03: The reporting of CSF samples RE04: The reporting of Biopsies RE05: The reporting of Peripheral Nerves RE06: The reporting of Muscle biopsies RE07: The reporting of intraoperative samples RE08: The reporting of Surgical Biopsies, temporal lobes RE09: Reporting of skin biopsy samples RE10: The Reporting of Surgical Biopsies: Definitive Specimens RE11: The reporting of molecular pathology results</p> <p>Documented in-house procedures in conjunction with manufacturer's instructions with reference to:</p> <p>SOPs SM01 and ST20 using Leica HistoCore Spectra ST Multistainer, Leica HistoCore Spectra CV Coverslipper and Haematoxylin and Eosin stains</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Slides from tissue section, CSF, ocular fluid & body fluids</p>	<p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)</u></p> <p><u>Special staining</u></p> <p>Acid mucins</p> <p>Acid and neutral mucins</p> <p>Amyloid</p> <p>Nissl substance</p> <p>Blood cells</p> <p>Protozoa</p> <p>Reticulin fibres</p> <p>Gram positive and negative bacteria</p> <p>Fungal elements</p> <p>Connective tissue</p> <p>Laforra bodies</p> <p>Myelin and Nissl substance</p> <p>Elastic fibres and connective tissue</p> <p>Fibrin</p> <p>Glycogen</p> <p>Neutral mucins, glycogen, fungi</p>	<p>In house documented procedures in conjunction with equipment as specified below:</p> <p>Documented in-house procedures for manual hand staining with the following stains with reference to:</p> <p>Alcian Blue (pH 2.5) (SOP ST02)</p> <p>Alcian Blue/ Periodic Acid Schiff (SOP ST04)</p> <p>Congo Red (SOPST10)</p> <p>Cresyl Fast Violet (SOP ST11)</p> <p>Giemsa (SOP ST15A)</p> <p>Giemsa (SOP ST15B)</p> <p>Gordon and Sweets (SOP ST16)</p> <p>Gram Stain (SOP ST17)</p> <p>Grocott (SOP ST19)</p> <p>Haematoxylin Van Gieson (SOP ST22)</p> <p>Lugols Iodine (SOP ST25)</p> <p>Luxol Fast Blue (SOP ST26)</p> <p>Miller's Elastic Van Gieson (SOP ST30)</p> <p>Martius Scarlet Blue (SOP ST31)</p> <p>Periodic Acid Schiff – diastase (SOP ST33)</p> <p>Periodic Acid Schiff (SOPST34)</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Slides from tissue section, CSF, ocular fluid & body fluids (cont'd)</p>	<p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</u> (cont'd)</p> <p><u>Special staining</u> (cont'd)</p> <p>Pituitary cells</p> <p>Ferric iron salts</p> <p>Lipofuscin</p> <p>Various staining of rapid smears</p> <p>Calcium</p> <p>Lipofuscin</p> <p>Acid Fast Bacilli</p> <p>Acid mucins</p> <p>Acid and neutral mucins</p> <p>Amyloid</p> <p>Elastic fibres and connective tissue</p> <p>Fungal elements</p> <p>Neutral mucins, glycogen, fungi</p> <p>Glycogen removal</p> <p>Ferric iron salts</p> <p>Reticulin fibres</p>	<p>In house documented procedures in conjunction with equipment as specified below:</p> <p>Documented in-house procedures for manual hand staining with the following stains with reference to:</p> <p>Periodic Acid Schiff/Orange G (PAS/OG) (SOP ST36)</p> <p>Perl's Prussian Blue (SOP ST37)</p> <p>Sudan Black (SOP ST42)</p> <p>Toluidine Blue (SOP ST43)</p> <p>Von Kossa (SOP ST45)</p> <p>Ziehl Nielsen (Long) (SOP ST48)</p> <p>Ziehl Nielsen (SOP ST49)</p> <p>SOP SM02 for automated staining using Ventana Benchmark with the following stains:</p> <p>Alcian Blue</p> <p>Alcian Blue PAS</p> <p>Congo Red (not nerve)</p> <p>EVG</p> <p>Grocott</p> <p>PAS</p> <p>PASD</p> <p>Perls</p> <p>Retic</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Slides from tissue section, CSF, ocular fluid & body fluids</p>	<p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry:</u></p> <p>Detection of:</p> <p>Amyloid protein</p> <p>Pituitary hormone adrenocorticotropin</p> <p>Alpha smooth muscle actin</p> <p>Amyloid precursor protein</p> <p>Classification of dementias</p> <p>Astrocytoma identification</p> <p>BRAF Gene</p> <p>Complement</p> <p>Low molecular weight cytokeratin</p> <p>CD10 antigen</p> <p>Cd117 antigen</p> <p>Plasma cells</p> <p>Mast cells</p> <p>B-cell antigen</p> <p>Tumour necrosis factor</p> <p>Endothelial cell expression</p> <p>Endothelial cell expression</p>	<p>In house documented procedures in conjunction with equipment as specified below:</p> <p>SOP IM22 in conjunction with manufacturer's instructions using Ventana Benchmark Discovery Ultra with the following antibodies:</p> <p>A4, beta amyloid-N</p> <p>ACTH</p> <p>SMA</p> <p>APP</p> <p>AT8 (TAU)</p> <p>ATRX</p> <p>Brachyury</p> <p>BRAF v600E</p> <p>CAM 5.2</p> <p>CD10</p> <p>CD117</p> <p>CD138 (paraffin) CD138 (cyto)</p> <p>CD1a</p> <p>CD20 (paraffin) CD20 (cyto) CD20 (nerve)</p> <p>CD30</p> <p>CD31</p> <p>CD34</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)</u>	In house documented procedures in conjunction with equipment as specified below:
Slides from tissue section, CSF, ocular fluid & body fluids (cont'd)	<u>Immunohistochemistry: (cont'd)</u>	SOP IM22 in conjunction with manufacturer's instructions using Ventana Benchmark Ultra with the following antibodies:
	Detection of: (cont'd)	
	Transcription Factor	GATA3 (paraffin) GATA3 (cyto)
	Growth hormone	GH
	Glial Fibrillary Acidic Protein	GFAP
	Herpes Simplex Virus I antigen	HSV I
	Herpes Simplex Virus II antigen	HSV II
	Melanoma marker	HMB-45
	Gliomas	IDH1
	Transmembrane glycoprotein	IC2
	Inhibin antigen	Inhibin- α
	Cell proliferation	Ki67 (paraffin) Ki67 (cyto)
	Leucocyte common antigen	LCA / CD45 (paraffin) LCA/ CD45 (cyto)
	Luteinising hormone antigen	LH
	Microtubule associated protein marker antigen	MAP2
	Melanoma	Melan-A
	Broad spectrum cytokeratin expression	MNF116 (paraffin) MNF 116 (cyto)
	Neuronal cell marker	Nestin
	Neuronal nuclear protein	NeuN



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Slides from tissue section, CSF, ocular fluid & body fluids (cont'd)	<u>Immunohistochemistry:</u> (cont'd)	SOP IM22 in conjunction with manufacturer's instructions using Ventana Benchmark Ultra with the following antibodies:
	Detection of: (cont'd)	
	TTF1 antigen	TTF1 (paraffin) TTF1 (cyto)
	Thyroid Stimulating Hormone	TSH
	Dementia classification	Ubiquitin
	Vimentin antigen	Vimentin
		SOP IM22a in conjunction with manufacturer's instructions using Ventana Discovery Ultra with the following antibodies:
	Dementia classification	Alpha-synuclein
	Sarcolemmal membrane, dystrophy marker	Alpha-dystroglycan
	Sarcolemmal membrane, dystrophy marker	Alpha-sarcoglycan
	Sarcolemmal membrane	Beta-Dystroglycan
	Sarcolemmal membrane, dystrophy marker	Beta-Sarcoglycan
	Sarcolemmal membrane	Beta Spectrin
	Myofibrillary marker	BAG3
	Myofibrillary marker	Calpain
	Inflammatory marker, mature T-cell	CD3 (muscle)



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Sections from tissue CSF, ocular fluid & body fluids</p>	<p><u>Immunohistochemistry:</u> (cont'd)</p> <p>Detection of:</p> <p>Prion Proteins</p> <p>Alpha-Synuclein Beta-Amyloid Glial Fibrillary Acidic Protein Dementia Classification Dementia Classification Dementia Classification</p>	<p>In house documented procedures in conjunction with equipment as specified below:</p> <p>SOP The use and maintenance of the Discovery XT Autostainers</p> <p>KG69 CSM35 12F10 a-Synuclein b-Amyloid GFAP AT8 Tau P62 TDP43</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Cerebrospinal fluid Ocular fluid and body fluids</p> <p>Fixed preparations</p>	<p><u>Non-Gynaecological Cytology</u></p> <p>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</p> <p><u>Staining of slides for analysis</u></p> <p>Basic cellular components</p>	<p><u>Preparation of slides for staining</u></p> <p>Documented in-house procedures CY03A, CY04 and CY05 in conjunction with manufacturer's instructions using Shandon Cytospin 4</p> <p>Documented in-house procedures using Leica ST5020 Multistainer and ST503 coverslipper with reference to:</p> <p>Giemsa (SOP CY07) PAP (SOP CY06)</p>



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**University College London Hospitals
NHS Foundation Trust**
Issue No: 008 Issue date: 25 February 2026

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Sections from tissue, CSF, ocular fluid & body fluids</p>	<p><u>Molecular Biology</u></p> <p>DNA Profiling for detection of abnormal sequences for disease conditions</p>	<p>Documented in-house methods for DNA manufacture, purification and detection using techniques and kits in combination with manufacturer's instructions:</p> <p><u>DNA Extraction</u></p> <p>SOP PC05 in conjunction with manufacturer's instructions using Eppendorf centrifuge and Thermomixer. Using the Maxwell CSC 48 Automated DNA/RNA extractor for DNA extraction. NanoDrop Spectrophotometer from Labtech International RE12: The reporting of molecular pathology results by molecular scientists</p> <p><u>RNA Extraction</u></p> <p>SOP PC05 in conjunction with manufacturer's instructions using Eppendorf centrifuge and Thermomixer. Using the Maxwell CSC 48 Automated DNA/RNA extractor for RNA extraction. NanoDrop Spectrophotometer from Labtech International RE12: The reporting of molecular pathology results by molecular scientists</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Sections from tissue CSF, ocular fluid & body fluids (cont'd)</p>	<p><u>Molecular Biology</u> (cont'd)</p> <p>DNA Profiling for detection of abnormal sequences for disease conditions (cont'd)</p> <p>Identification of IDH1, IDH 2, BRAF, V600E, H3F3, TERT promoter point mutations</p> <p>Detection of semi-quantitative methylation rate on CpG island of MGMT</p> <p>Identification of copy number variation on chromosome 1p, 19q,</p> <p>Identification of TERT mutations</p> <p>Identification of H3 mutations</p> <p>Identification of EGFR viii mutation</p>	<p>Documented in-house methods for DNA manufacture, purification and detection using techniques and kits in combination with manufacturer's instructions:</p> <p>SOP PC04 in conjunction with manufacturer's instructions using Applied Biosystems Thermocycler Veriti and SimpliAmp by PCR and Sanger sequencing (provided by Eurofins)</p> <p>SOP PC06 in conjunction with manufacturer's instructions using Eppendorf Thermomixer and QuantStudio 5 Real – time PCR system by high resolution melting methylation assay</p> <p>SOP PC02 in conjunction with manufacturer's instructions for using QS5 Real – time PCR system using copy number assay</p> <p>SOP PC04 – TERT promoter mutations in gliomas detected by sanger sequencing (performed by Eurofins)</p> <p>SOP PC04 Detection of histone H3 mutations in adult glioblastoma detected by sanger sequencing (performed by Eurofins)</p> <p>SOP PC011 in conjunction with manufacturer's instructions using Applied Biosystems Thermocycler verity and QS5 Real – time PCR system</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Sections from tissue CSF, ocular fluid & body fluids (cont'd)</p>	<p><u>Molecular Biology</u> (cont'd)</p> <p>DNA Profiling for detection of abnormal sequences for disease conditions (cont'd)</p> <p>Identification of BRAF fusion mutations</p> <p>Identification of BRAF V600E point mutation</p> <p>Analysis of loss of homozygosity on CDKN2A and CDKN2B in gliomas</p> <p>Illumina 850k methylation arrays</p>	<p>Documented in-house methods for DNA manufacture, purification and detection using techniques and kits in combination with manufacturer's instructions:</p> <p>SOP PC09 in conjunction with manufacturer's instructions using Applied Biosystems Thermocycler verity and QS5 Real – time PCR system</p> <p>SOP PC04 in conjunction with manufacturer's instructions for using Applied Biosystems Thermocycler verity by PCR and Sanger sequencing</p> <p>SOP PC20 Analysis of loss of homozygosity on CDKN2A and CDKN2B in gliomas using QS5 for quantitative real time PCR</p> <p>SOP PC15 and PC16: DNA preparation for Illumina arrays prior to examinations by referral laboratory. Methylation Array Pipeline and the use of a downloaded controlled, local copy of the Heidelberg Classifiers ('brain_classifier_v12.8' and 'sarcoma_classifier_v12.8') managed and supported by the Neuropathology bioinformatics team.</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Molecular Biology</u> (cont'd)	
Slide preparations of frozen tissue sections of adult / paediatric muscle as stated	<u>Staining of slides for analysis</u>	Documented in-house procedures by manual staining with reference to:
Adult	Identification of general morphology including of basophilic and eosinophilic structures	Haematoxylin and Eosin (SOP MU12)
Adult & Paediatric	Identification of general morphology highlighting nemaline rods, cytoplasmic and mitochondrial abnormalities	Modified Gomori Trichrome (SOP MU13)
Adult	PAS +ve substances	Periodic Acid Schiff (SOP MU14)
Paediatric	PAS +ve substances	Diastase Periodic Acid Schiff (SOP MU14a)
Adult	Lipids	Sudan Black (SOP MU15)
Adult & Paediatric	Simple lipids	Oil Red O (SOP MU18)



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histochemistry</u>	
	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis	
Adult & Paediatric	Nicotinamide Adenine Dinucleotide	SOP MU04
Adult	Succinic Dehydrogenase	SOP MU05
Adult & Paediatric	Cytochrome Oxidase	SOP MU06
Adult & Paediatric	Acid phosphatase	SOP MU08
Adult & Paediatric	Adenylate deaminase	SOP MU09
Adult	Adenosine triphosphate	SOP MU10
Adult & Paediatric	Combined cytochrome oxidase and succinic dehydrogenase	SOP MU19
Adult and paediatric	Phosphorylase	SOP MU07
Paediatric	Phosphofructokinase	SOP DL03
Paediatric	Menadione-linked-alpha-glycerophosphate dehydrogenase without substrate	SOP DL04
	Alkaline Phosphatase	SOP DL30



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Human tissues – muscle, skin, tumour and post mortem tissue</p> <p>Semi-thin resin sections mounted on glass slides</p> <p>Semi-thin resin sections mounted on glass slides</p> <p>Ultra-thin (~70nm) sections on support grids</p>	<p><u>Histochemistry</u> (cont'd)</p> <p><u>Electron Microscopy</u> (cont'd)</p> <p>To differentiate between myelin, collagen and elastin. Demonstration of tubercle bacilli.</p> <p>Tissue components and metachromatic tissue elements</p>	<p>Staining of material using the following stains with reference to:</p> <p>Methylene Blue/ Azure A/ Basic fuchsin (SOP EM07)</p> <p>Toluidine Blue (SOP EM08)</p> <p>Uranyl acetate/ Lead acetate (SOP EM09)</p>
END		